

ANNUAL REPORT FOR 2002



Juniper Swamp Bridge Mitigation Site
Onslow County
TIP No. B-3008



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SUMMARY

The Juniper Swamp Mitigation Site is located in Onslow County. The site was planted in 2001 and was designed as mitigation for wetland impacts associated with bridge project B-3008.

The mitigation encompasses approximately 0.95 acres total of wetland restoration and 0.082 of wetland creation. The restoration effort involved the removal of the temporary roadway fill related to the detour and the creation area was graded down to the adjacent wetland elevation. Both the restoration area and the creation area were revegetated with bottomland hardwood species. The area is being monitored to ensure that it re-attains wetland jurisdictional status. No hydrologic monitoring is required for this project; however, vegetation monitoring is required for three years.

After the first year of monitoring, the Juniper Swamp Bridge site shows by visual observation that the planted species are surviving and that the impacted area is re-attaining jurisdictional status.

NCDOT recommends continuing monitoring of this site.

1.0 INTRODUCTION

1.1 Project Description

The Juniper Swamp Bridge Mitigation site is located at Bridge No. 16 on NC 50 in Onslow County. The site consists of approximately 1.04 acres of mitigation for wetland impacts associated with project B-3008.

1.2 Purpose

In order for a mitigation site to be considered successful, a site must meet success criteria in vegetation. This report details the vegetation monitoring in 2002 at the Juniper Swamp Bridge Mitigation Site. Hydrologic monitoring was not required for the site.

1.3 Project History

March 2002	Site planted
December 2002	Vegetation Monitoring (1 year)

**B-3008 Juniper Swamp
Bridge Site
NC50 North of Holly Ridge
Onslow Co**



Figure 1. Site Location Map

2.0 VEGETATION: JUNIPER SWAMP BRIDGE MITIGATION SITE (YEAR 1 MONITORING)

2.1 Success Criteria

Success Criteria states that the impacted area where the onsite detour was removed shall be replanted using bottomland hardwood species and must re-attain jurisdictional status at the end of three years.

2.2 Description of Species

The following wetland species were planted in the Wetland Restoration Area:

Taxodium distichum, Baldcypress

Nyssa sylvatica var. *biflora*, Swamp Blackgum

Quercus phellos, Willow Oak

Quercus lyrata, Overcup Oak

Fraxinus pennsylvanica, Green Ash

2.3 Results of Vegetation Monitoring

The impacted area where the onsite temporary detour was removed and revegetated is re-attaining jurisdictional status and the planted species are surviving.

Site Notes: Other species noted include: *Juncus* sp., cattails, black willow, and fennel.

2.4 Conclusions

There were approximately 0.95 acres total of wetland restoration and 0.082 of wetland creation planted on site. There were no plots established on the site. By visual observation the Juniper Swamp Bridge site shows that the planted species are surviving and that the impacted area is re-attaining jurisdictional status.

3.0 Overall Conclusions and Recommendations

NCDOT proposes to continue monitoring at the Juniper Swamp Bridge Site.

APPENDIX A

SITE PHOTOS

Juniper Swamp Bridge



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6